

Sequence Listings:-

<110> Garvan Institute of Medical Research

Title of the Invention: Isoforms of the Human Vitamin D Receptor

<130> 91317

<140>

<141>

<160> 12

<170> PatentIn Ver. 2.0

SEQ ID NO: 1

<211> 96

<212> DNA

<213> Homo sapiens

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SEQ ID NO: 2

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<212> DNA

<213> Homo sapiens

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caccgcagc ccaatccatc actcagcaac tcctagacgc tggtagaaag ttcctccgag 180
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 <212> DNA  
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SEQ ID NO: 7  
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 <213> Homo sapiens

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23

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<212> DNA  
<213> Homo sapiens

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gg 122

SEQ ID NO: 9  
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<212> PRT  
<213> Homo sapiens

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Pro His Arg Arg Ala Pro Leu Gly Ser Thr Tyr Leu Pro Pro Ala Pro  
35 40 45  
Ser Gly Met Glu Ala Met Ala Ala Ser Thr Ser Leu Pro Asp Pro Gly  
50 55 60  
Asp Phe Asp Arg Asn Val Pro Arg Ile Cys Gly Val Cys Gly Asp Arg  
65 70 75 80  
Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys Glu Gly Cys Lys Gly  
85 90 95  
Phe Phe Arg Arg Ser Met Lys Arg Lys Ala Leu Phe Thr Cys Pro Phe  
100 105 110  
Asn Gly Asp Cys Arg Ile Thr Lys Asp Asn Arg Arg His Cys Gln Ala  
115 120 125  
Cys Arg Leu Lys Arg Cys Val Asp Ile Gly Met Met Lys Glu Phe Ile  
130 135 140  
Leu Thr Asp Glu Glu Val Gln Arg Lys Arg Glu Met Ile Leu Lys Arg  
145 150 155 160  
Lys Glu Glu Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu  
165 170 175  
Glu Gln Gln Arg Ile Ile Ala Ile Leu Leu Asp Ala His His Lys Thr  
180 185 190  
Tyr Asp Pro Thr Tyr Ser Asp Phe Cys Gln Phe Arg Pro Pro Val Arg  
195 200 205

005160 23760560

Val Asn Asp Gly Gly Gly Ser His Pro Ser Arg Pro Asn Ser Arg His  
 210 215 220  
 Thr Pro Ser Phe Ser Gly Asp Ser Ser Ser Ser Cys Ser Asp His Cys  
 225 230 235 240  
 Ile Thr Ser Ser Asp Met Met Asp Ser Ser Ser Phe Ser Asn Leu Asp  
 245 250 255  
 Leu Ser Glu Glu Asp Ser Asp Asp Pro Ser Val Thr Leu Glu Leu Ser  
 260 265 270  
 Gln Leu Ser Met Leu Pro His Leu Ala Asp Leu Val Ser Tyr Ser Ile  
 275 280 285  
 Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro Gly Phe Arg Asp Leu  
 290 295 300  
 Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser Ser Ala Ile Glu Val  
 305 310 315 320  
 Ile Met Leu Arg Ser Asn Glu Ser Phe Thr Met Asp Asp Met Ser Trp  
 325 330 335  
 Thr Cys Gly Asn Gln Asp Tyr Lys Tyr Arg Val Ser Asp Val Thr Lys  
 340 345 350  
 Ala Gly His Ser Leu Glu Leu Ile Glu Pro Leu Ile Lys Phe Gln Val  
 355 360 365  
 Gly Leu Lys Lys Leu Asn Leu His Glu Glu Glu His Val Leu Leu Met  
 370 375 380  
 Ala Ile Cys Ile Val Ser Pro Asp Arg Pro Gly Val Gln Asp Ala Ala  
 385 390 395 400  
 Leu Ile Glu Ala Ile Gln Asp Arg Leu Ser Asn Thr Leu Gln Thr Tyr  
 405 410 415  
 Ile Arg Cys Arg His Pro Pro Pro Gly Ser His Leu Leu Tyr Ala Lys  
 420 425 430  
 Met Ile Gln Lys Leu Ala Asp Leu Arg Ser Leu Asn Glu Glu His Ser  
 435 440 445  
 Lys Gln Tyr Arg Cys Leu Ser Phe Gln Pro Glu Cys Ser Met Lys Leu  
 450 455 460  
 Thr Pro Leu Val Leu Glu Val Phe Gly Asn Glu Ile Ser  
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SEQ ID NO: 10  
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 <212> PRT  
 <213> Homo sapiens

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 35 40 45  
 Val Cys Gly Asp Arg Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys  
 50 55 60  
 Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Met Lys Arg Lys Ala Leu  
 65 70 75 80  
 Phe Thr Cys Pro Phe Asn Gly Asp Cys Arg Ile Thr Lys Asp Asn Arg  
 85 90 95  
 Arg His Cys Gln Ala Cys Arg Leu Lys Arg Cys Val Asp Ile Gly Met  
 100 105 110  
 Met Lys Glu Phe Ile Leu Thr Asp Glu Glu Val Gln Arg Lys Arg Glu  
 115 120 125  
 Met Ile Leu Lys Arg Lys Glu Glu Glu Ala Leu Lys Asp Ser Leu Arg  
 130 135 140  
 Pro Lys Leu Ser Glu Glu Gln Gln Arg Ile Ile Ala Ile Leu Leu Asp  
 145 150 155 160  
 Ala His His Lys Thr Tyr Asp Pro Thr Tyr Ser Asp Phe Cys Gln Phe  
 165 170 175  
 Arg Pro Pro Val Arg Val Asn Asp Gly Gly Gly Ser His Pro Ser Arg  
 180 185 190  
 Pro Asn Ser Arg His Thr Pro Ser Phe Ser Gly Asp Ser Ser Ser Ser  
 195 200 205  
 Cys Ser Asp His Cys Ile Thr Ser Ser Asp Met Met Asp Ser Ser Ser  
 210 215 220  
 Phe Ser Asn Leu Asp Leu Ser Glu Glu Asp Ser Asp Asp Pro Ser Val  
 225 230 235 240  
 Thr Leu Glu Leu Ser Gln Leu Ser Met Leu Pro His Leu Ala Asp Leu  
 245 250 255  
 Val Ser Tyr Ser Ile Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro  
 260 265 270  
 Gly Phe Arg Asp Leu Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser  
 275 280 285

005760-2460560

26

Ser Ala Ile Glu Val Ile Met Leu Arg Ser Asn Glu Ser Phe Thr Met  
 290 295 300  
 Asp Asp Met Ser Trp Thr Cys Gly Asn Gln Asp Tyr Lys Tyr Arg Val  
 305 310 315 320  
 Ser Asp Val Thr Lys Ala Gly His Ser Leu Glu Leu Ile Glu Pro Leu  
 325 330 335  
 Ile Lys Phe Gln Val Gly Leu Lys Lys Leu Asn Leu His Glu Glu Glu  
 340 345 350  
 His Val Leu Leu Met Ala Ile Cys Ile Val Ser Pro Asp Arg Pro Gly  
 355 360 365  
 Val Gln Asp Ala Ala Leu Ile Glu Ala Ile Gln Asp Arg Leu Ser Asn  
 370 375 380  
 Thr Leu Gln Thr Tyr Ile Arg Cys Arg His Pro Pro Pro Gly Ser His  
 385 390 395 400  
 Leu Leu Tyr Ala Lys Met Ile Gln Lys Leu Ala Asp Leu Arg Ser Leu  
 405 410 415  
 Asn Glu Glu His Ser Lys Gln Tyr Arg Cys Leu Ser Phe Gln Pro Glu  
 420 425 430  
 Cys Ser Met Lys Leu Thr Pro Leu Val Leu Glu Val Phe Gly Asn Glu  
 435 440 445  
 Ile Ser  
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 <212> PRT  
 <213> Homo sapiens

<400> 11  
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 20 25 30  
 Leu Pro Asp Pro Gly Asp Phe Asp Arg Asn Val Pro Arg Ile Cys Gly  
 35 40 45  
 Val Cys Gly Asp Arg Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys  
 50 55 60  
 Glu Gly Cys Lys Gly Phe Phe Arg  
 65 70

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SEQ ID NO: 12

&lt;211&gt; 427

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 12

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 20 25 30  
 Gly Phe His Phe Asn Ala Met Thr Cys Glu Gly Cys Lys Gly Phe Phe  
 35 40 45  
 Arg Arg Ser Met Lys Arg Lys Ala Leu Phe Thr Cys Pro Phe Asn Gly  
 50 55 60  
 Asp Cys Arg Ile Thr Lys Asp Asn Arg Arg His Cys Gln Ala Cys Arg  
 65 70 75 80  
 Leu Lys Arg Cys Val Asp Ile Gly Met Met Lys Glu Phe Ile Leu Thr  
 85 90 95  
 Asp Glu Glu Val Gln Arg Lys Arg Glu Met Ile Leu Lys Arg Lys Glu  
 100 105 110  
 Glu Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu Glu Gln  
 115 120 125  
 Gln Arg Ile Ile Ala Ile Leu Leu Asp Ala His His Lys Thr Tyr Asp  
 130 135 140  
 Pro Thr Tyr Ser Asp Phe Cys Gln Phe Arg Pro Pro Val Arg Val Asn  
 145 150 155 160  
 Asp Gly Gly Gly Ser His Pro Ser Arg Pro Asn Ser Arg His Thr Pro  
 165 170 175  
 Ser Phe Ser Gly Asp Ser Ser Ser Ser Cys Ser Asp His Cys Ile Thr  
 180 185 190  
 Ser Ser Asp Met Met Asp Ser Ser Ser Phe Ser Asn Leu Asp Leu Ser  
 195 200 205  
 Glu Glu Asp Ser Asp Asp Pro Ser Val Thr Leu Glu Leu Ser Gln Leu  
 210 215 220  
 Ser Met Leu Pro His Leu Ala Asp Leu Val Ser Tyr Ser Ile Gln Lys  
 225 230 235 240  
 Val Ile Gly Phe Ala Lys Met Ile Pro Gly Phe Arg Asp Leu Thr Ser  
 245 250 255  
 Glu Asp Gln Ile Val Leu Leu Lys Ser Ser Ala Ile Glu Val Ile Met  
 260 265 270  
 Leu Arg Ser Asn Glu Ser Phe Thr Met Asp Asp Met Ser Trp Thr Cys  
 275 280 285

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WO 99/16872

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Gly Asn Gln Asp Tyr Lys Tyr Arg Val Ser Asp Val Thr Lys Ala Gly  
 290 295 300  
 His Ser Leu Glu Leu Ile Glu Pro Leu Ile Lys Phe Gln Val Gly Leu  
 305 310 315 320  
 Lys Lys Leu Asn Leu His Glu Glu Glu His Val Leu Leu Met Ala Ile  
 325 330 335  
 Cys Ile Val Ser Pro Asp Arg Pro Gly Val Gln Asp Ala Ala Leu Ile  
 340 345 350  
 Glu Ala Ile Gln Asp Arg Leu Ser Asn Thr Leu Gln Thr Tyr Ile Arg  
 355 360 365  
 Cys Arg His Pro Pro Pro Gly Ser His Leu Leu Tyr Ala Lys Met Ile  
 370 375 380  
 Gln Lys Leu Ala Asp Leu Arg Ser Leu Asn Glu Glu His Ser Lys Gln  
 385 390 395 400  
 Tyr Arg Cys Leu Ser Phe Gln Pro Glu Cys Ser Met Lys Leu Thr Pro  
 405 410 415  
 Leu Val Leu Glu Val Phe Gly Asn Glu Ile Ser  
 420 425

00942-0430